

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P269102

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T2R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7263 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

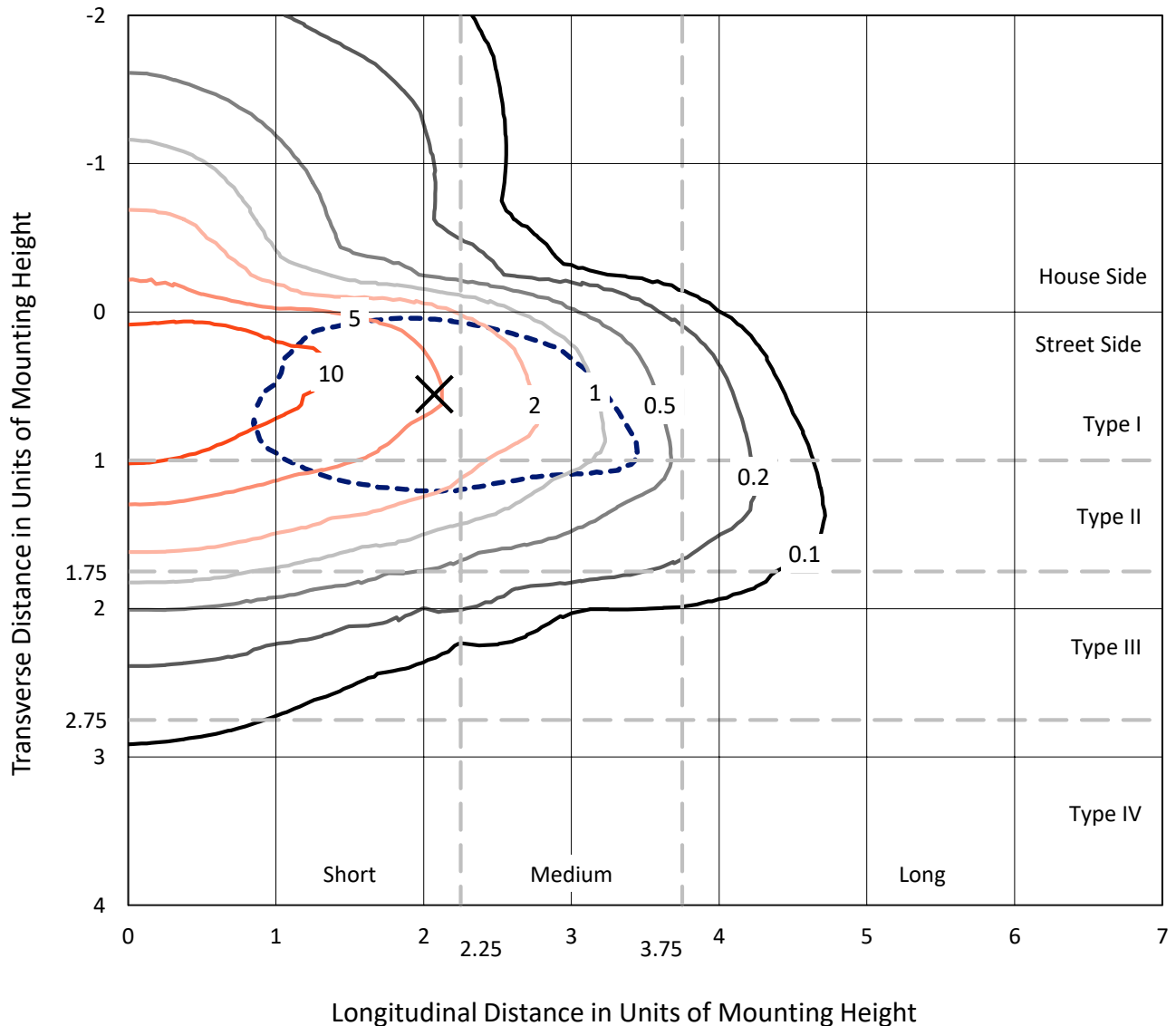


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Iso-Footcandle Lines of Horizontal Illumination

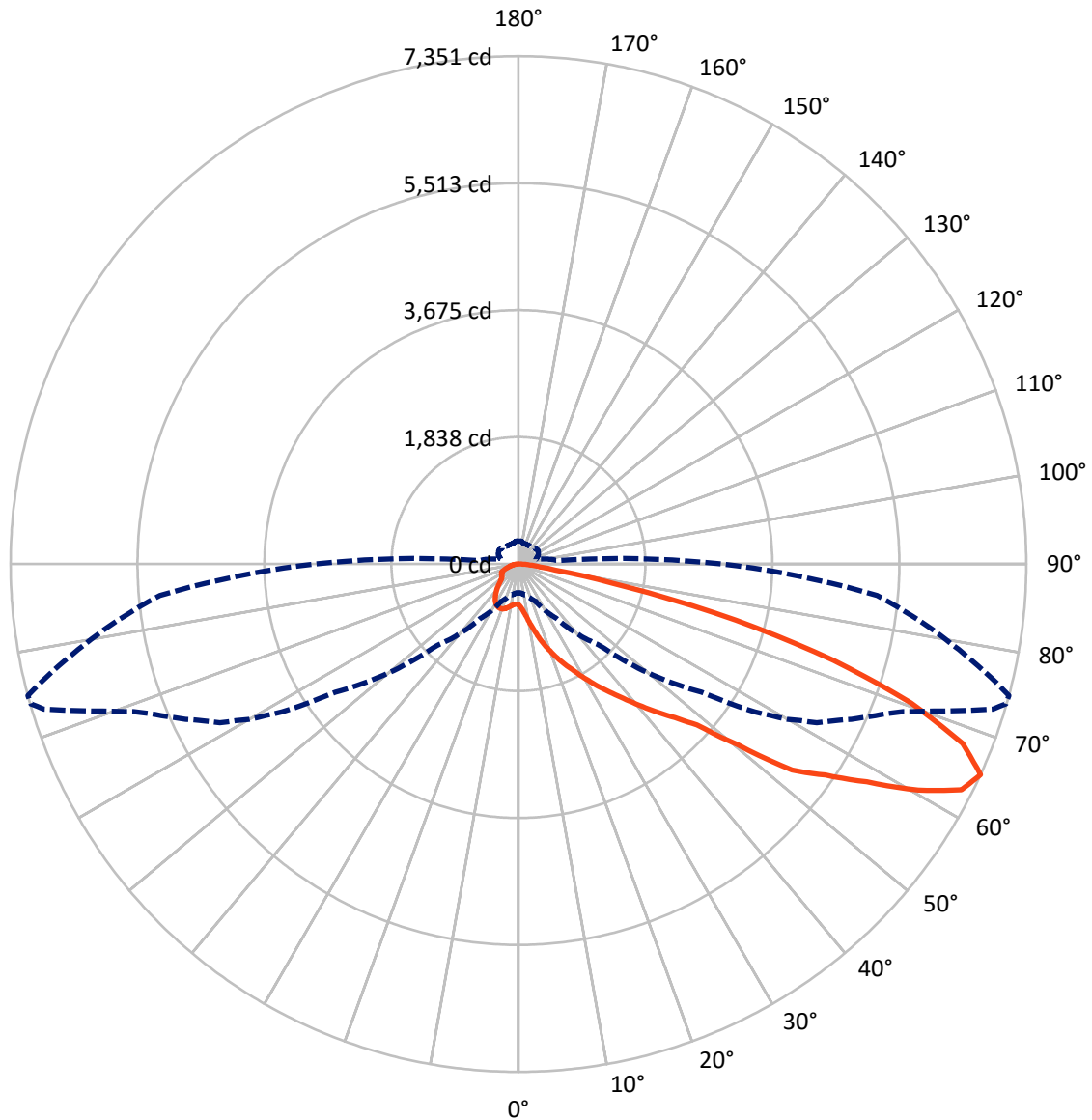
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.8	0.0	1119.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6143.2	0.0	6143.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	7263.0	0.0	7263.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.0
10°-20°	285.1	3.9
20°-30°	584.8	8.1
30°-40°	984.0	13.5
40°-50°	1359.6	18.7
50°-60°	1697.2	23.4
60°-70°	1527.3	21.0
70°-80°	640.2	8.8
80°-90°	111.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7263.0	100.0
0°-180°	7263.0	100.0



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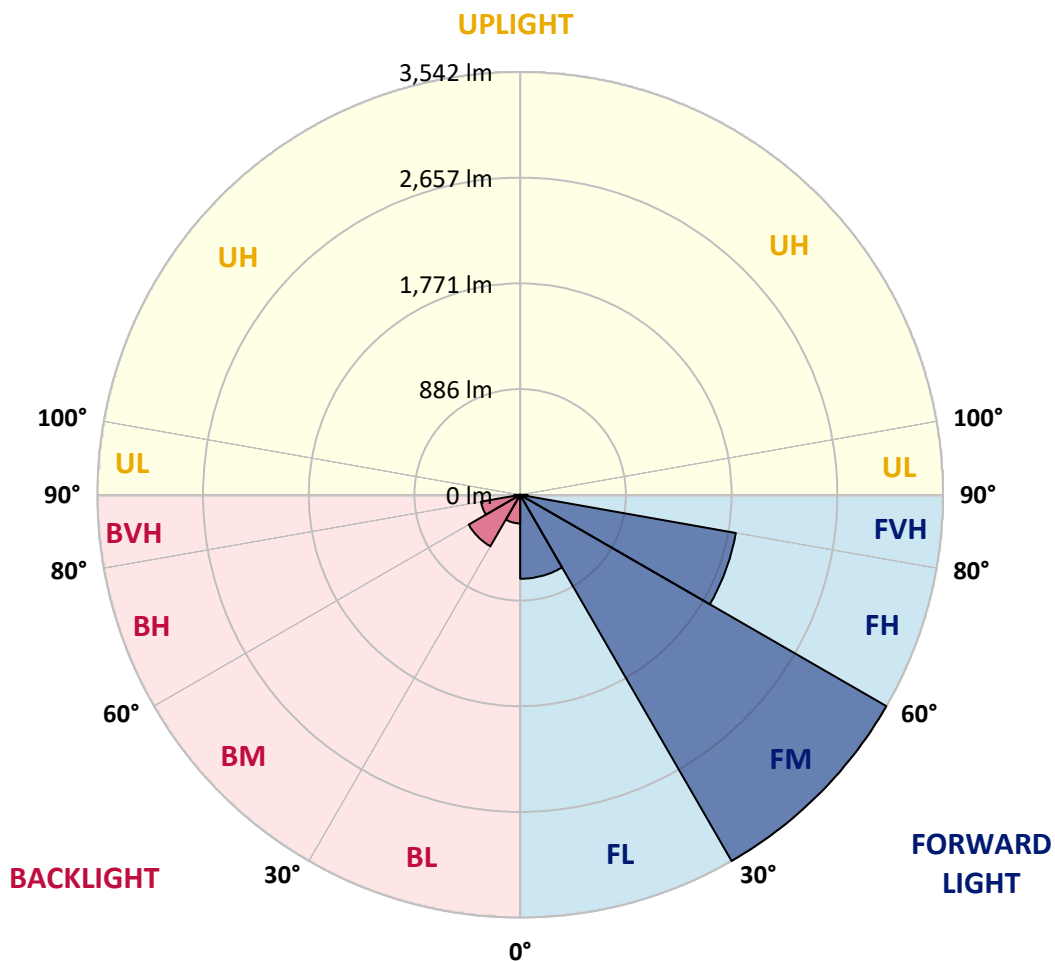
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.4	9.7			
FM	(30°-60°)	3542.3	48.8			
FH	(60°-80°)	1834.6	25.3			G2/5000
FVH	(80°-90°)	62.9	0.9			G1/100
BL	(0°-30°)	239.5	3.3	B1/500		
BM	(30°-60°)	498.4	6.9	B1/1000		
BH	(60°-80°)	332.9	4.6	B1/500		G1/500
BVH	(80°-90°)	49.0	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	749.5	741.2	743.3	729.5	712.6	690.6	666.3	665.9	666.3	663.8	654.9
5°	1039.2	1029.3	1025.4	994.6	949.1	884.6	814.5	806.9	803.8	795.8	777.7
7.5°	1250.6	1245.1	1239.3	1215.9	1174.7	1102.5	1008.3	992.1	976.6	972.9	952.3
10°	1387.2	1385.7	1373.4	1367.2	1341.3	1278.8	1187.0	1171.6	1154.7	1148.9	1127.3
12.5°	1495.0	1494.7	1488.9	1490.6	1468.2	1422.8	1343.9	1329.8	1317.4	1299.5	1283.9
15°	1569.7	1570.0	1578.6	1588.3	1584.8	1554.2	1480.0	1473.8	1463.1	1450.8	1432.4
17.5°	1630.9	1632.6	1641.6	1659.0	1677.9	1675.6	1616.8	1611.6	1602.2	1585.5	1575.8
20°	1769.0	1775.6	1758.4	1758.4	1760.5	1769.8	1741.5	1737.4	1724.3	1715.5	1707.9
22.5°	2002.4	2010.0	1971.2	1931.6	1892.8	1864.6	1836.5	1841.5	1832.6	1826.4	1822.0
25°	2305.7	2311.5	2248.5	2182.0	2102.8	1999.6	1929.9	1926.9	1922.1	1918.2	1916.2
27.5°	2591.0	2593.3	2533.8	2436.4	2344.5	2196.4	2024.8	2021.0	2015.2	2008.0	2001.8
30°	2835.1	2834.4	2773.2	2680.1	2581.6	2417.8	2168.9	2157.2	2140.0	2120.4	2105.3
32.5°	3046.5	3045.4	2978.4	2881.9	2778.6	2637.1	2366.1	2342.2	2315.3	2277.2	2254.0
35°	3212.9	3212.2	3149.0	3048.2	2929.9	2843.7	2592.4	2562.9	2528.8	2477.5	2442.1
37.5°	3275.8	3275.8	3240.4	3171.6	3067.2	3008.1	2843.7	2807.9	2771.5	2713.4	2673.4
40°	3239.0	3239.6	3247.3	3234.5	3183.7	3138.3	3078.1	3056.8	3025.5	2973.3	2931.7
42.5°	3115.6	3119.4	3169.6	3231.2	3256.5	3249.3	3286.1	3276.5	3254.5	3214.2	3181.3
45°	2959.1	2970.9	3025.9	3142.1	3276.8	3345.3	3460.5	3461.3	3457.2	3435.7	3410.2
47.5°	2744.3	2760.9	2833.3	2990.5	3229.3	3438.4	3637.4	3646.7	3655.4	3641.2	3629.5
50°	2459.0	2478.7	2587.2	2795.5	3132.7	3535.0	3971.9	4013.8	4053.1	4048.2	4056.1
52.5°	2153.3	2176.5	2309.5	2541.6	2966.7	3557.4	4185.7	4254.2	4322.6	4378.6	4438.0
55°	1877.6	1865.3	1998.3	2242.8	2693.7	3456.6	4377.9	4460.4	4536.7	4605.5	4676.2
57.5°	1504.0	1524.2	1657.6	1899.3	2332.4	3172.4	4510.3	4630.9	4740.5	4854.4	4954.8
60°	1099.3	1119.6	1264.4	1509.8	1940.2	2741.3	4409.2	4592.0	4767.8	4942.0	5078.2
62.5°	663.8	678.9	806.5	1040.2	1496.0	2230.0	3958.9	4198.8	4457.3	4665.6	4874.4
65°	413.2	421.8	468.9	597.5	960.8	1664.9	3234.5	3496.2	3774.6	4039.0	4255.9
67.5°	338.3	341.4	350.0	377.5	527.7	1085.6	2407.5	2639.1	2890.4	3146.3	3387.5
70°	304.3	302.2	302.2	303.8	338.3	583.7	1576.2	1727.1	1936.4	2158.8	2379.6
72.5°	274.7	272.6	268.9	263.7	276.0	356.2	814.8	928.5	1079.5	1277.1	1488.5
75°	246.9	244.1	239.6	233.1	241.6	268.9	391.2	439.0	512.6	617.8	735.7
77.5°	218.0	214.5	210.5	205.6	216.6	209.0	229.2	246.4	274.7	308.4	352.8
80°	185.3	182.1	180.7	178.5	191.5	159.2	162.0	172.6	189.1	207.2	227.9
82.5°	145.0	145.0	150.6	151.6	166.0	114.4	121.0	130.3	138.9	148.5	158.1
85°	95.6	96.3	114.9	122.0	131.0	77.1	90.8	93.9	100.7	106.2	110.3
87.5°	30.0	32.2	70.2	77.8	75.3	43.7	55.7	57.0	61.9	65.7	69.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	654.9	650.7	647.0	646.6	643.8	640.1	641.5	635.6	636.0	632.9	629.4
5°	770.0	767.3	753.6	749.7	739.5	732.8	731.8	718.1	716.4	708.6	699.9
7.5°	935.8	926.8	907.6	898.2	880.8	867.7	861.5	843.2	834.3	813.8	804.4
10°	1109.3	1098.0	1074.4	1061.2	1044.4	1023.3	1012.1	985.6	975.3	956.3	933.7
12.5°	1270.3	1258.9	1234.5	1224.5	1202.1	1179.8	1167.4	1137.6	1124.0	1093.9	1076.0
15°	1419.1	1407.7	1386.4	1376.2	1353.7	1335.5	1319.0	1289.4	1273.6	1245.5	1222.1
17.5°	1563.5	1551.5	1532.9	1523.5	1502.0	1483.5	1465.5	1437.6	1421.5	1393.4	1372.3
20°	1697.5	1688.6	1675.2	1662.9	1641.2	1624.3	1602.9	1579.0	1555.5	1534.9	1515.0
22.5°	1814.4	1811.1	1796.5	1791.0	1772.4	1758.1	1739.5	1715.8	1699.0	1672.9	1654.1
25°	1915.1	1914.1	1907.2	1905.6	1892.5	1878.7	1874.7	1855.0	1839.5	1816.6	1797.1
27.5°	2001.8	2002.9	2001.1	2005.9	2002.4	1996.3	1996.7	1990.0	1981.1	1961.9	1945.1
30°	2098.0	2092.5	2095.7	2102.6	2104.5	2105.3	2116.5	2120.4	2119.7	2107.0	2098.7
32.5°	2234.2	2221.1	2209.1	2208.0	2215.0	2217.6	2236.9	2246.9	2255.5	2258.6	2260.0
35°	2407.7	2381.6	2356.6	2343.1	2331.5	2334.5	2348.3	2364.5	2383.4	2396.4	2411.9
37.5°	2626.5	2594.5	2550.1	2518.5	2510.6	2493.3	2502.3	2515.1	2533.6	2553.9	2580.7
40°	2891.5	2843.0	2793.1	2751.1	2728.5	2696.9	2696.5	2694.1	2705.4	2724.4	2762.2
42.5°	3146.6	3103.6	3050.6	3006.5	2977.1	2934.8	2926.1	2903.9	2909.0	2925.5	2962.3
45°	3385.4	3350.0	3317.7	3266.9	3241.8	3196.0	3181.5	3155.1	3140.4	3147.9	3184.8
47.5°	3616.8	3594.1	3560.4	3527.5	3508.2	3467.3	3448.8	3429.8	3411.0	3410.2	3448.8
50°	4067.9	4055.8	4016.0	3981.6	3990.8	3940.7	3943.7	3892.9	3915.9	3918.6	3999.4
52.5°	4491.7	4533.7	4563.2	4599.3	4622.7	4627.2	4642.6	4665.6	4693.6	4748.5	4823.4
55°	4734.3	4787.0	4817.6	4845.1	4890.6	4900.2	4925.9	4956.5	4980.9	5042.7	5106.3
57.5°	5022.9	5120.5	5167.9	5211.5	5272.7	5296.1	5339.0	5372.5	5404.1	5477.2	5554.3
60°	5200.6	5319.6	5416.2	5485.2	5561.9	5616.9	5681.9	5734.2	5808.4	5896.0	6010.7
62.5°	5059.3	5234.0	5362.2	5480.6	5584.9	5690.1	5783.3	5880.8	5993.6	6126.4	6304.5
65°	4496.6	4674.2	4894.0	5017.0	5154.8	5317.1	5458.7	5616.9	5770.5	5963.8	6227.1
67.5°	3619.9	3826.5	4073.4	4197.4	4355.9	4537.1	4695.9	4889.1	5068.5	5302.6	5628.2
70°	2609.2	2876.4	3084.1	3213.5	3398.5	3585.1	3738.4	3963.3	4111.8	4351.7	4688.3
72.5°	1652.2	1862.8	2117.2	2280.5	2444.8	2634.0	2790.8	2984.6	3123.1	3341.8	3646.7
75°	888.3	1043.7	1267.1	1422.1	1598.2	1759.8	1943.4	2073.3	2175.8	2348.7	2596.1
77.5°	416.4	510.9	624.0	743.3	862.6	987.0	1108.0	1213.3	1257.2	1356.3	1502.2
80°	252.7	283.2	316.3	353.0	402.9	443.1	496.5	534.9	537.6	568.9	613.6
82.5°	168.8	180.1	190.1	199.3	212.1	222.2	233.4	246.9	252.3	259.5	274.1
85°	115.2	120.6	122.7	128.5	127.2	130.7	135.1	139.5	142.0	141.7	148.2
87.5°	70.8	73.7	75.0	76.4	75.3	73.9	75.9	78.4	79.1	77.1	77.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	630.2	627.0	624.0	621.8	621.2	603.0	595.0	589.8	578.9	570.0	562.8
5°	695.1	688.6	683.4	677.2	673.8	627.7	610.8	599.2	579.9	568.5	558.2
7.5°	799.6	781.3	770.7	758.7	748.4	665.1	637.3	619.1	592.3	577.3	565.6
10°	918.2	899.4	882.5	863.9	847.7	715.1	674.4	646.3	610.8	591.3	575.9
12.5°	1050.6	1032.1	1010.8	987.0	966.3	778.3	721.9	681.8	633.2	607.2	585.4
15°	1207.1	1174.4	1148.6	1121.1	1097.0	853.8	777.3	721.6	656.9	621.5	592.6
17.5°	1352.4	1318.1	1283.0	1258.9	1231.0	938.9	833.0	762.1	676.6	630.8	594.0
20°	1494.4	1457.0	1426.7	1394.3	1365.2	1026.9	892.5	797.9	689.3	631.1	585.4
22.5°	1619.6	1596.1	1562.4	1527.4	1497.8	1114.8	948.2	828.1	694.1	623.2	570.3
25°	1761.8	1737.1	1695.8	1666.3	1633.3	1204.5	1002.8	851.6	691.3	608.5	547.0
27.5°	1913.7	1886.4	1844.0	1813.0	1773.2	1297.7	1053.0	868.3	681.0	584.3	515.6
30°	2072.3	2047.1	2005.6	1974.3	1934.1	1396.3	1109.0	879.7	660.3	551.1	479.2
32.5°	2242.3	2221.5	2180.1	2147.6	2104.5	1503.4	1161.2	883.2	629.2	511.6	440.7
35°	2404.0	2389.5	2354.8	2324.3	2279.5	1604.5	1216.7	881.4	592.0	468.2	405.7
37.5°	2585.9	2577.2	2560.1	2521.3	2466.6	1741.5	1283.0	874.2	546.6	425.3	378.8
40°	2779.7	2780.4	2761.8	2735.3	2684.6	1907.9	1362.0	860.0	497.1	387.3	354.4
42.5°	2985.0	2995.6	2986.7	2967.8	2919.0	2075.8	1456.5	842.9	449.0	350.7	330.3
45°	3220.2	3233.2	3247.0	3219.0	3171.6	2297.1	1580.9	820.6	397.1	320.1	313.9
47.5°	3491.4	3512.0	3524.3	3524.7	3477.2	2571.4	1783.1	807.1	351.0	299.4	306.0
50°	4063.8	4070.2	4099.4	4150.3	4113.9	3206.3	2136.2	799.0	319.6	286.6	300.2
52.5°	4888.4	4960.4	5010.7	5007.3	4957.8	3609.6	2330.7	756.4	301.1	281.9	297.3
55°	5224.4	5314.1	5407.4	5432.3	5393.8	3953.7	2514.6	713.7	292.2	285.3	298.3
57.5°	5671.9	5823.2	5951.5	6005.3	5949.7	4394.1	2756.7	691.3	289.4	294.6	305.0
60°	6194.7	6381.7	6550.3	6647.2	6647.2	4900.2	3007.6	682.1	285.8	308.4	315.9
62.5°	6530.6	6805.3	7059.7	7201.6	7197.5	5252.5	3119.1	650.5	277.0	318.0	331.0
65°	6531.9	6858.6	7182.8	7342.2	7350.6	5209.1	2935.1	574.5	261.2	319.3	346.1
67.5°	5987.5	6335.7	6713.6	6891.9	6933.2	4795.2	2540.9	472.4	235.4	305.7	351.6
70°	5056.9	5396.8	5782.6	5957.9	6031.1	4087.7	2046.5	364.1	202.5	275.4	340.4
72.5°	3984.0	4317.4	4585.8	4714.1	4771.2	3124.6	1490.3	275.1	166.0	232.0	309.7
75°	2820.7	3070.9	3213.5	3242.2	3251.1	1883.6	905.5	204.5	136.8	180.5	261.5
77.5°	1591.9	1699.2	1687.6	1700.3	1594.4	727.1	394.3	146.5	112.7	137.3	202.8
80°	621.5	640.9	602.0	589.8	541.0	270.6	173.9	102.0	90.1	103.8	142.0
82.5°	274.1	283.0	274.7	276.8	264.7	139.5	104.2	73.9	68.8	75.9	94.2
85°	150.9	153.7	153.0	157.5	150.9	55.7	49.4	45.4	48.1	51.6	60.5
87.5°	73.7	74.3	71.9	75.6	73.2	28.1	24.4	25.8	28.1	28.8	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	557.6	554.9	555.2	554.6	553.1	553.1
5°	552.7	550.0	550.0	549.4	547.6	548.0
7.5°	557.6	553.1	551.4	549.0	546.6	546.6
10°	563.1	555.2	550.4	546.3	543.1	543.1
12.5°	567.2	554.9	547.0	541.5	538.4	538.4
15°	568.5	552.5	541.5	534.9	532.2	531.7
17.5°	564.1	543.1	529.7	522.2	518.7	517.8
20°	550.4	526.2	510.1	501.6	496.8	495.1
22.5°	529.7	502.2	483.4	474.5	468.2	467.2
25°	500.9	471.3	452.7	444.1	440.7	439.7
27.5°	467.2	439.7	423.9	418.4	415.2	414.9
30°	435.1	411.9	400.1	396.1	392.2	391.5
32.5°	405.3	390.6	386.0	380.3	371.3	370.2
35°	383.9	382.6	379.5	366.5	355.5	352.3
37.5°	370.9	383.7	367.9	342.1	334.1	333.5
40°	363.4	372.9	345.8	337.0	337.7	337.0
42.5°	346.1	356.2	346.6	342.4	345.2	345.8
45°	329.0	340.0	351.6	348.9	355.5	355.5
47.5°	319.3	335.8	351.3	351.3	360.9	364.4
50°	308.4	332.5	345.8	350.7	358.2	355.5
52.5°	307.7	326.5	337.9	346.6	350.0	346.8
55°	308.7	321.8	329.9	339.6	343.8	344.1
57.5°	310.1	319.0	324.5	329.0	341.4	341.4
60°	313.5	316.7	319.6	322.1	338.3	338.7
62.5°	319.0	314.1	313.5	315.9	336.5	335.2
65°	327.6	310.8	305.7	307.9	334.9	330.7
67.5°	339.3	305.7	295.6	297.3	333.5	324.5
70°	350.0	297.3	283.2	281.6	320.3	304.5
72.5°	351.0	287.7	266.1	260.9	278.5	263.4
75°	333.8	281.2	247.2	232.0	230.0	227.9
77.5°	300.8	277.4	225.1	201.5	197.3	198.6
80°	251.6	263.4	198.6	170.5	192.9	190.4
82.5°	188.0	232.4	168.8	150.9	150.6	132.9
85°	104.6	181.2	137.5	113.0	78.7	76.4
87.5°	29.3	100.7	96.3	63.9	43.7	45.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)